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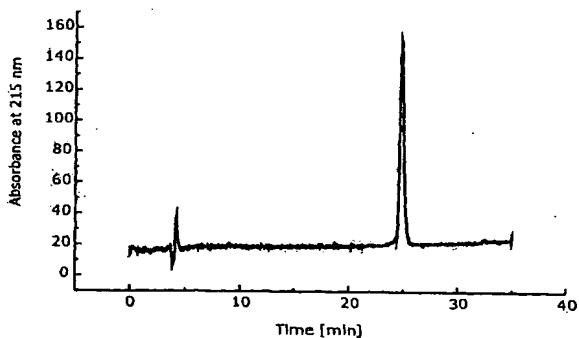
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(54) Title: PEPTIDES AND THEIR USE FOR THE TREATMENT OF HIV INFECTIONS



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(57) Abstract: The invention relates to peptides with biological activity against infection having the amino acid sequence Z₁-LE-X₁-IP-X₂-X₃-X₄-P-X₅-X₆-X₇-X₈-X₉-X₁₀-K-X₁₁-X₁₂-X₁₃-X₁₄-X₁₅-Z₂, wherein X₁ is a lysine, alanine, or aspartic acid; X₂ is a cysteine, methionine or isoleucine; X₃ is a serine, cysteine, lysine or glycine; X₄ is an isoleucine, alanine, phenylalanine or cysteine; X₅ is a proline, D-proline or a substituted L- or D-proline; X₆ is a cysteine or glutamic acid; X₇ is an amino acid with a hydrophobic or an aromatic side chain or cysteine; X₈ is an amino acid with a hydrophobic or an aromatic side chain or cysteine; X₉ is an amino acid with an aromatic side chain; X₁₀ is a glycine, alanine or asparagine; X₁₁ is a proline, aspartic acid, octahydroindolyl-2-carboxylic acid or D-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid; X₁₂ is a phenylalanine, alanine, glycine, glutamic acid or D-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid; X₁₃ is an amino acid with a hydrophobic or an aromatic side chain; X₁₄ is an amino acid with a hydrophobic or an aromatic side chain; X₁₅ is a phenylalanine or deletion; Z₁ is NH₂ or a sequence of 1 to 10 amino acid residues; Z₂ is COOH or a sequence of 1 to 10 amino acid residues; and peptides which are fragments and/or covalently linked oligomers and/or derivatives, especially amidated, alkylated, acylated, sulfated, pegylated, phosphorylated and/or glycosylated derivatives, and mutants thereof, and with the provisio that (a) if X₁₂ is alanine, glycine, glutamic acid, or D-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid than X₁₃, X₁₄ and X₁₅ are phenylalanine, valine and phenylalanine respectively; and/or (b) if X₁₂ is phenylalanine, than X₁₃, X₁₄ and X₁₅ are valine, phenylalanine and a deletion, respectively; and (c) that there are at maximum two cysteine residues in a peptide.



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